

Amendments to the Claims

This listing of the claims will replace all prior versions and listings of the claims in the application.

Listing of Claims:

1. (Currently amended) MA measuring device on at least one rail of a railway track for measuring the roundness of an individual railway vehicle wheel or the railway vehicle wheels of a set of wheels during running thereof on the rail as a difference of ~~the~~ a circumferential radius of ~~the~~ a wheel flange ~~cap~~top and ~~the~~ a radius of ~~the~~ a running surface ~~tread~~ of the railway vehicle wheel in a measuring plane, ~~characterised in that in which~~ the measuring device, within a measuring path (25) along the rail (4), ~~consists of~~ comprises:

a plurality of individual measuring sensors (12), which respectively are (i) configured as a feeler roller, (ii) have a lateral distance (33) from one another and, and (iii) are connected to the rail (4) in the measuring plane (17) along the axis of rotation (6) of the railway vehicle wheel or the set of wheels and perpendicularly to the contact surface (10) of the respective railway vehicle wheel (1), in a manner that during a predetermined measuring time at least two adjacent measuring sensors contact the circumference of the wheel flange top at the same time.

2. (Currently amended) M ~~The~~ measuring device according to ~~of~~ claim 1, ~~characterised in that wherein~~ the measuring path (25) is between one and two times the circumference of the running ~~tread~~ surface (2) of the railway vehicle wheel (1).

3. (Currently amended) M ~~The~~ measuring device according to ~~claims 1 and 2 of claim 1,~~ ~~characterised in that, wherein~~ within the measuring path (25), at least one measuring sensor (12) contacts the circumference of the wheel flange ~~top~~ cap (5).

4. (Cancelled)

5. (Currently amended) ~~M~~The measuring device according to any one of claims 1 to 4 of claim 1, characterised in that, wherein each measuring sensor (12) consists of the following elements further comprises:

- a base ~~(16)~~ that may be fastened to the rail ~~(4)~~₁;
- a measuring lever ~~(13)~~ comprising;
- a feeler roller (14) at the outer end ~~[[,]] of the measuring lever~~;
- a swivel joint (18) on the base ~~(16)~~ for the measuring lever ~~(12)~~₁;
- a return spring (19) between the feeler roller (12) and the swivel joint (18); and
- and an angle sensor (20) in or on the swivel joint (18).

6. (Currently amended) ~~M~~The measuring device according to of claim 5, characterised in that, further comprising a calibration stop ~~is provided~~.

7. (Currently amended) ~~M~~The measuring device according to any one of claims 1 to 6, of claim 1, characterised in that, further comprising an evaluation device ~~[[,]] to which each individual measuring sensor (12) may be~~ can be connected, ~~is provided~~.

8. (Currently amended) ~~M~~The measuring device according to of claim 7, characterised in that, wherein the evaluation device comprises subordinate means for determining:

- the roundness (7) of the railway vehicle wheel (1) with precise values in the measuring points (23) of the sensors (12) and with tangents in the measuring points,

- the wheel diameter in the running tread ~~of the running surface (2)~~,

- the height of the wheel flange (5) in the contact surface (10) of the running tread surface (2) and

- the number, the position and respective depth of flat spots ~~wheel flats (11)~~ in the running surface (2).

9. (Currently amended) ~~M~~The measuring device according to claim 8, characterised in ~~that, wherein~~ the evaluation device comprises a subordinate means for determining the transverse displacement (29) of the railway vehicle wheel (1) or the railway vehicle wheels (1) of a set of wheels on passing through (3) the measuring path (25).

10. (Currently amended) ~~M~~The measuring device according to claim 8, characterised in ~~that, wherein~~ the evaluation device comprises a subordinate means that recursively corrects the diameter of the railway vehicle wheel (1) or the railway vehicle wheels (1) of a set of wheels with a measured deviation (7) from the roundness of the respective railway vehicle wheel (1).

11. (Currently amended) ~~M~~The measuring device according to claim 5, characterised in ~~that, wherein~~ a dirt scraper is provided on the feeler roller (14).

12. (New) The measuring device of claim 2, wherein within the measuring path, at least one measuring sensor contacts the circumference of the wheel flange top.

13. (New) The measuring device of claim 2, wherein each measuring sensor further comprises:

- a base that may be fastened to the rail;
- a measuring lever;
- a feeler roller at the outer end of the measuring lever;
- a swivel joint on the base for the measuring lever;
- a return spring between the feeler roller and the swivel joint; and
- an angle sensor in or on the swivel joint.

14. (New) The measuring device of claim 3, wherein each measuring sensor further comprises:

- a base that may be fastened to the rail;
- a measuring lever;
- a feeler roller at the outer end of the measuring lever;
- a swivel joint on the base for the measuring lever;
- a return spring between the feeler roller and the swivel joint; and
- an angle sensor in or on the swivel joint.

15. (New) The measuring device of claim 2, further comprising an evaluation device to which each individual measuring sensor can be connected.

16. (New) The measuring device of claim 3, further comprising an evaluation device to which each individual measuring sensor can be connected.

17. (New) The measuring device of claim 5, further comprising an evaluation device to which each individual measuring sensor can be connected.

18. (New) The measuring device of claim 6, further comprising an evaluation device to which each individual measuring sensor can be connected.